

**IN THE ABSTRACT:**

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**--ABSTRACT OF THE DISCLOSURE**

The invention relates to a lubricating metal coating and to a process for its preparation. The material constituting the coating in a composite material comprising a metal matrix within which talc particles are distributed as lamellae, the metal matrix being composed of a metal chosen from Fe, Co, Ni, Mn, Cr, Cu, W, Mo, Zn, Au, Ag, Pb or Sn or of an alloy of these metals or of a metal/semimetal alloy. The coating is obtained by a process consisting in carrying out an electrolytic deposition using a solution of precursors of the metal matrix of the coating which additionally comprises talc particles in suspension, which particles are modified at the surface by irreversible adsorption of a cellulose-derived compound by replacement of all or part of the hydroxyl groups.--